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Regression testing is an expensive but necessary maintenance activity performed on modified software to provide confidence that changes are correct and do not adversely affect other portions of the software. A regression test selection technique chooses, from an existing test set, tests that are deemed necessary to validate modified software. We present a new technique for regression test selection. Our algorithms construct control flow graphs for a procedure or program and its modified version ...

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4 Robert E. Mortenson

**Proceedings of the 13th conference on Winter simulation - Volume 1** January 1981

There are many opportunities for applying modeling and simulation techniques in an Air Force maintenance depot. This paper provides an overview of the scope and types of maintenance done at Sacramento Air Logistics Center and describes some of our Q-GERT and computer-generated graphics uses. The paper emphasizes the uses in the planning and scheduling of our aircraft maintenance activities and identifies areas for future application of simulations.

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4 E. K. Burke , A. J. Smith

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4 Allen M. Johnson , Miroslaw Malek

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In computer design, it is essential to know the effectiveness of different design options in improving performance and dependability. Various software tools have been created to evaluate these parameters, applying both analytic and simulation techniques, and this paper reviews those related primarily to reliability, availability, and serviceability. The purpose, type of models used, type of systems modeled, inputs, and outputs are given for each package. Examples of some of the key modeling ...






10 A study of application program development techniques 100%

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 Thomas Kunz , Michiel F. H. Seuren  
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 Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...
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 S. Finkelstein , M. Schkolnick , P. Tiberio  
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 Volume 13 Issue 1  
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 J. H. Keeney  
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[4] Norman I. Badler , Charles A. Erignac , Ying Liu  
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They can be sent to check the human aspects of complex physical systems by simulating assembly, repair, and maintenance tasks in a 3D virtual environment.
- 19 Simulating the operation of a logistics system 99%  
[4] P. Dulchinos , J. Hill  
**Proceedings of the second conference on Applications of simulations** December 1968  
This paper deals with the flow of replacement units through a supply system. It simulates, utilizing Monte Carlo techniques, the logistics flow of these replacement units through the various echelons of support. The operating echelon generates demands on the supply system. These demands cause a flow of requisitions and failed units up through the system. Subsequently, a return of good replacement units comes back to the operational level. The logistics model generates the turn around or rea ...
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[4] Axel Hein , Mario Dal Cin  
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*Contreras, L.R.; Modi, C.; Pennathur, A.;*

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